

Job B0903115	Truss GAM22	Truss Type GAMBREL ATTIC	Qty 10	Ply 1	Job Reference (optional)
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APM Building Materials, Arendtsville, PA, Kurt Vines

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0-4-8 2-4-4 4-10-4 17-1-12 19-7-12 22-0-0 22-4-8
 0-4-8 2-4-4 2-6-0 12-3-8 2-6-0 2-4-4 0-4-8

Scale = 1:39.3

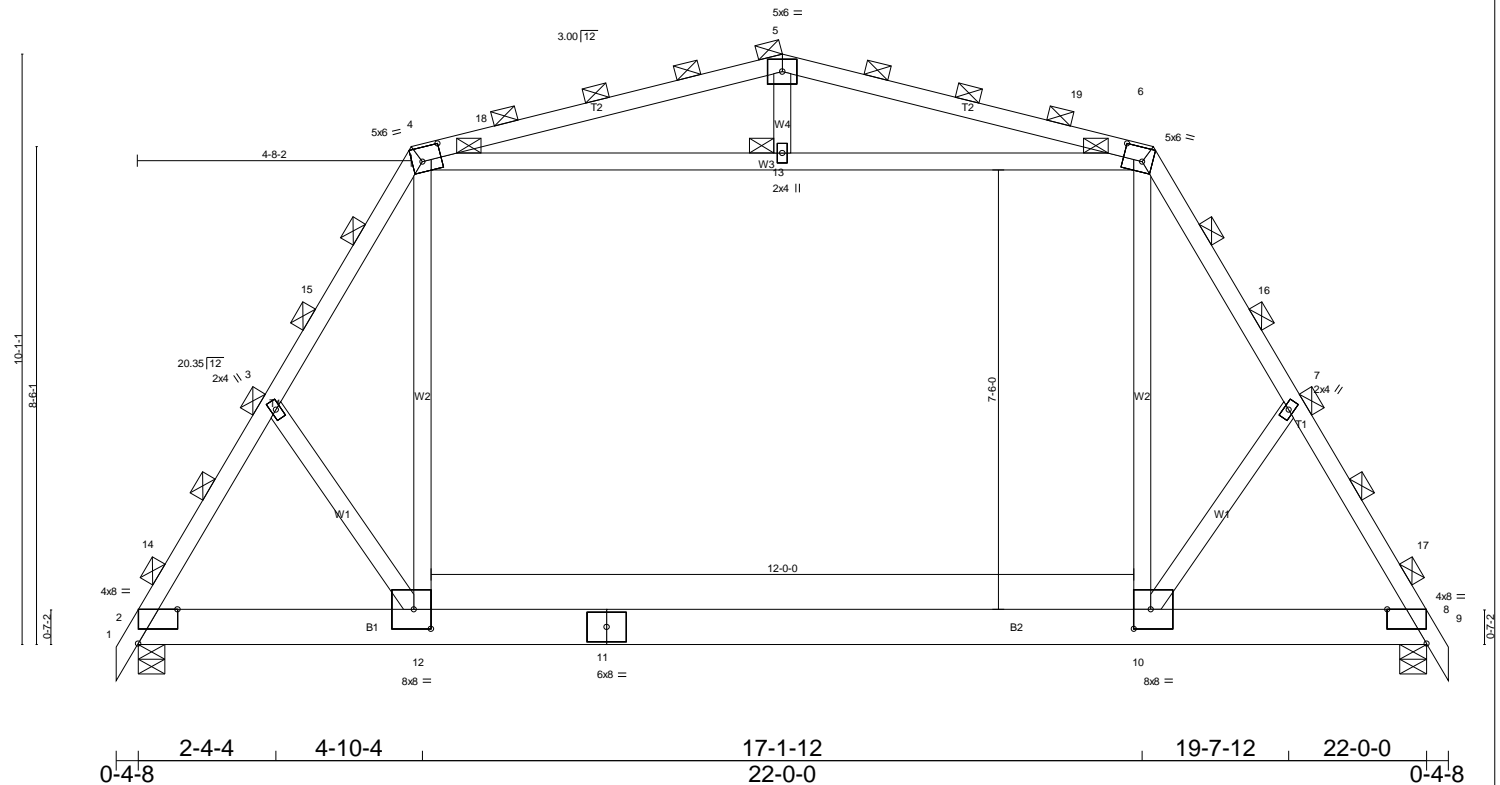


Plate Offsets (X,Y): [2:0-8-1,Edge], [4:0-3-15,0-2-14], [6:0-3-15,0-2-14], [8:0-8-1,Edge], [10:0-3-8,0-4-0], [12:0-3-8,0-4-0]

LOADING (psf) TCLL 30.0 TCDL 7.0 BCLL 0.0 BCDL 10.0	SPACING 2-0-0 Plates Increase 1.15 Lumber Increase 1.15 Rep Stress Incr YES Code IBC2006/TPI2002	CSI TC 0.46 BC 0.94 WB 0.24 (Matrix)	DEFL in (loc) l/defl L/d Vert(LL) -0.26 10-12 >999 240 Vert(TL) -0.34 10-12 >760 180 Horz(TL) 0.01 8 n/a n/a Attic room -0.23 10-12 647 360	PLATES MT20 Weight: 149 lb	GRIP 197/144
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LUMBER
 TOP CHORD 2 X 4 SPF No.2
 BOT CHORD 2 X 8 SYP No.2
 WEBS 2 X 4 SPF No.2

BRACING
 TOP CHORD 2-0-0 oc purlins (4-0-8 max.).
 BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 4, 6, 5, 13

REACTIONS (lb/size) 2=1257/0-1-14 (input: 0-5-8), 8=1257/0-1-14 (input: 0-5-8)
 Max Horz2=-210(LC 8)
 Max Uplift2=-7(LC 10), 8=-7(LC 10)
 Max Grav2=1611(LC 2), 8=1611(LC 2)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-14=-1942/0, 3-14=-1916/0, 3-15=-1767/42, 4-15=-1630/53, 6-16=-1630/53, 7-16=-1767/42,
 7-17=-1916/0, 8-17=-1942/0, 4-18=-1190/88, 5-18=-1137/99, 5-19=-1137/99, 6-19=-1190/88
 BOT CHORD 2-12=-31/853, 11-12=0/907, 10-11=0/907, 8-10=0/853
 WEBS 4-13=-252/196, 6-13=-252/196, 4-12=0/970, 6-10=0/970

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 90mph; TCDL=4.2psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; enclosed; MWFRS (all heights); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) ** TCLL: ASCE 7-05; Pr=30.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Ps= varies (min. roof snow=6.7 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Fully Exp.; Ct=1.1
 - 4) Roof design snow load has been reduced to account for slope.
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) This truss has been designed for greater of min roof live load of 16.0 psf or 2.00 times flat roof load of 20.8 psf on overhangs non-concurrent with other live loads.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) Ceiling dead load (5.0 psf) on member(s). 4-13, 6-13
 - 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 10-12
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 2 and 7 lb uplift at joint 8.
 - 11) This truss is designed in accordance with the 2006 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.
 - 12) Design assumes 4x2 (flat orientation) purlins at oc spacing indicated, fastened to truss TC w/ 2-10d nails.
 - 13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard
 1) Snow: Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 2-12=-20, 10-12=-100, 8-10=-20, 1-4=-27, 6-9=-27, 4-6=-10, 4-5=-56, 5-6=-56